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(54) MAGNETIC DISK AND ITS PRODUCTION

(57)Abstract:

PURPOSE: To improve magnetic characteristics by laminating a ferromagnetic layer consisting of a prescribed metal on an underlying layer consisting of a prescribed metal and diffusing and segregating the underlying metal into the ferromagnetic layer.

CONSTITUTION: The underlying layer consisting of the metal selected from Cr, Cu, Mn, Mo, Si, Ta, Ti, V, and W or the alloy thereof is formed on a nonmagnetic substrate. The ferromagnetic layer consisting of Co or essentially consisting of Co is laminated thereon. After this substrate is heated to the crystal phase transformation point (W400°C) of the material forming the ferromagnetic material or above, the substrate is cooled under impression of a magnetic field in the horizontal direction (circumferential direction of a disk) to diffuse and segregate the underlying metal into the magnetic layer. The substrate is preferably subjected to a previous heating treatment at $\geq 700^{\circ}\text{C}$ in this case. A glass or ceramic substrate is used for the substrate.

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